

RC-100

SERVICE NOTES

First Edition

SPECIFICATIONS

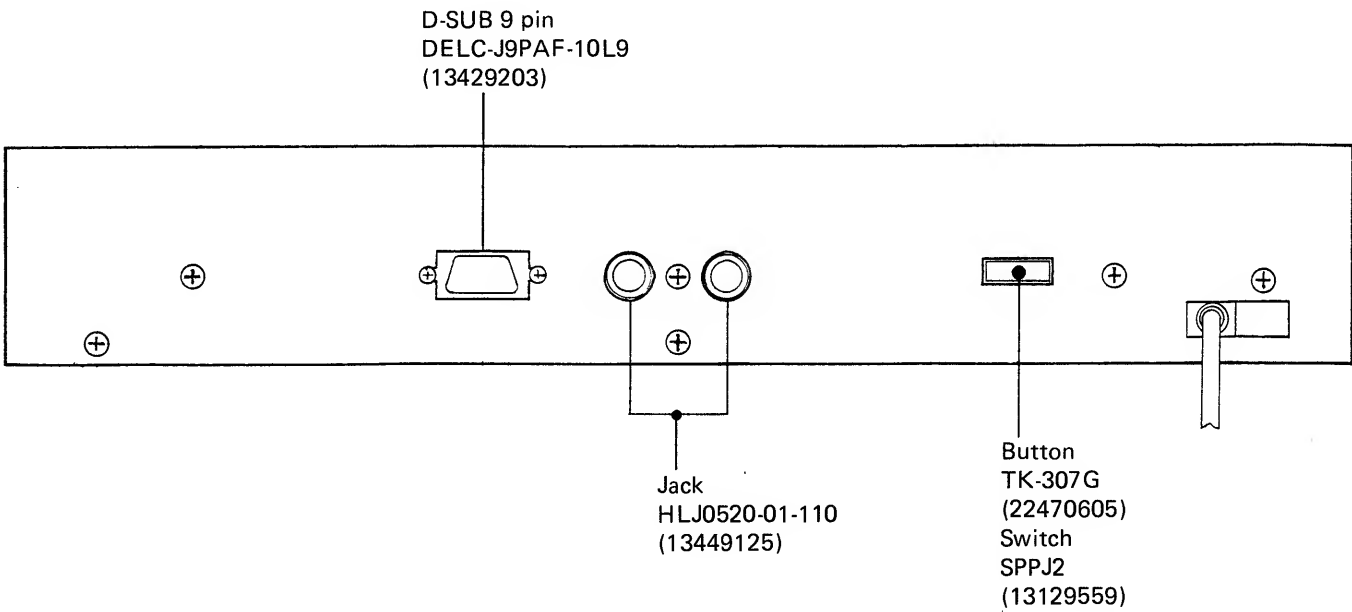
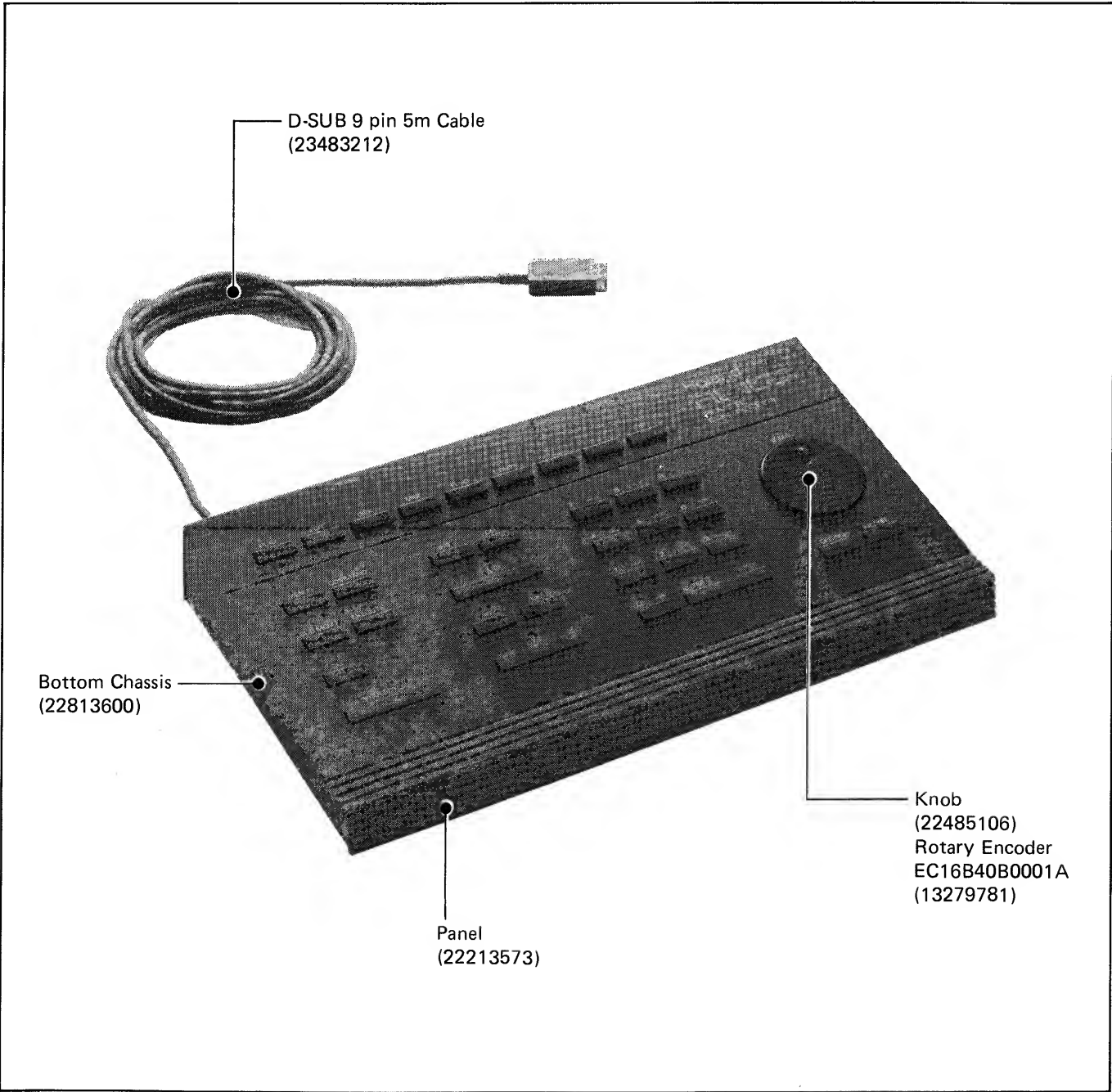
Dimensions : 300 (W) x 173 (D) x 53 (H) mm
11-13/16 x 6-13/16 x 2-1/16 in.

Consumption : 1W

Weight : 1.4 kg

Connection Cord : 5.0 m x 1

Connection Connector : D SUB, 9 PIN

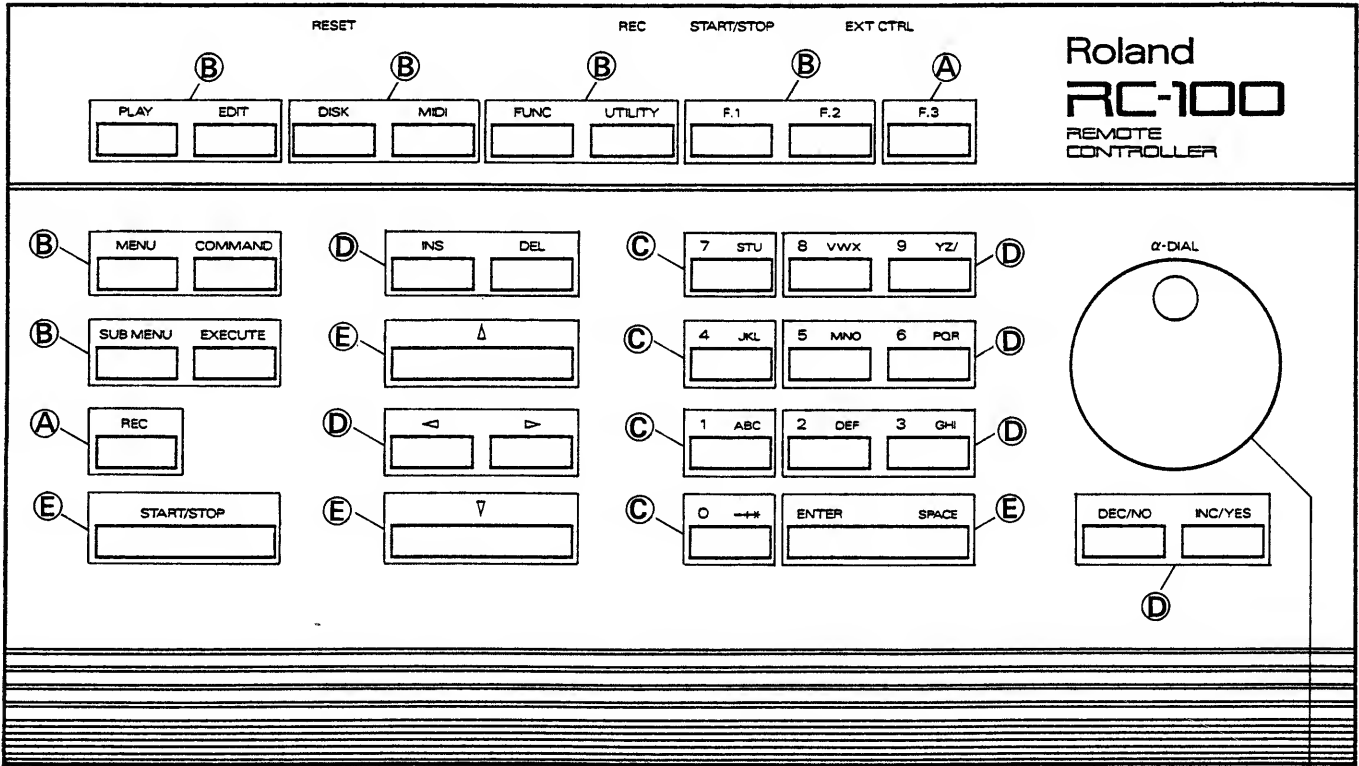


BUTTON

Ⓐ	22475656	BUTTON	LED 1P
Ⓑ	22475657	BUTTON	LED 2P
Ⓒ	22475658	BUTTON	1P
Ⓓ	22475659	BUTTON	2P
Ⓔ	22493182	BUTTON	L

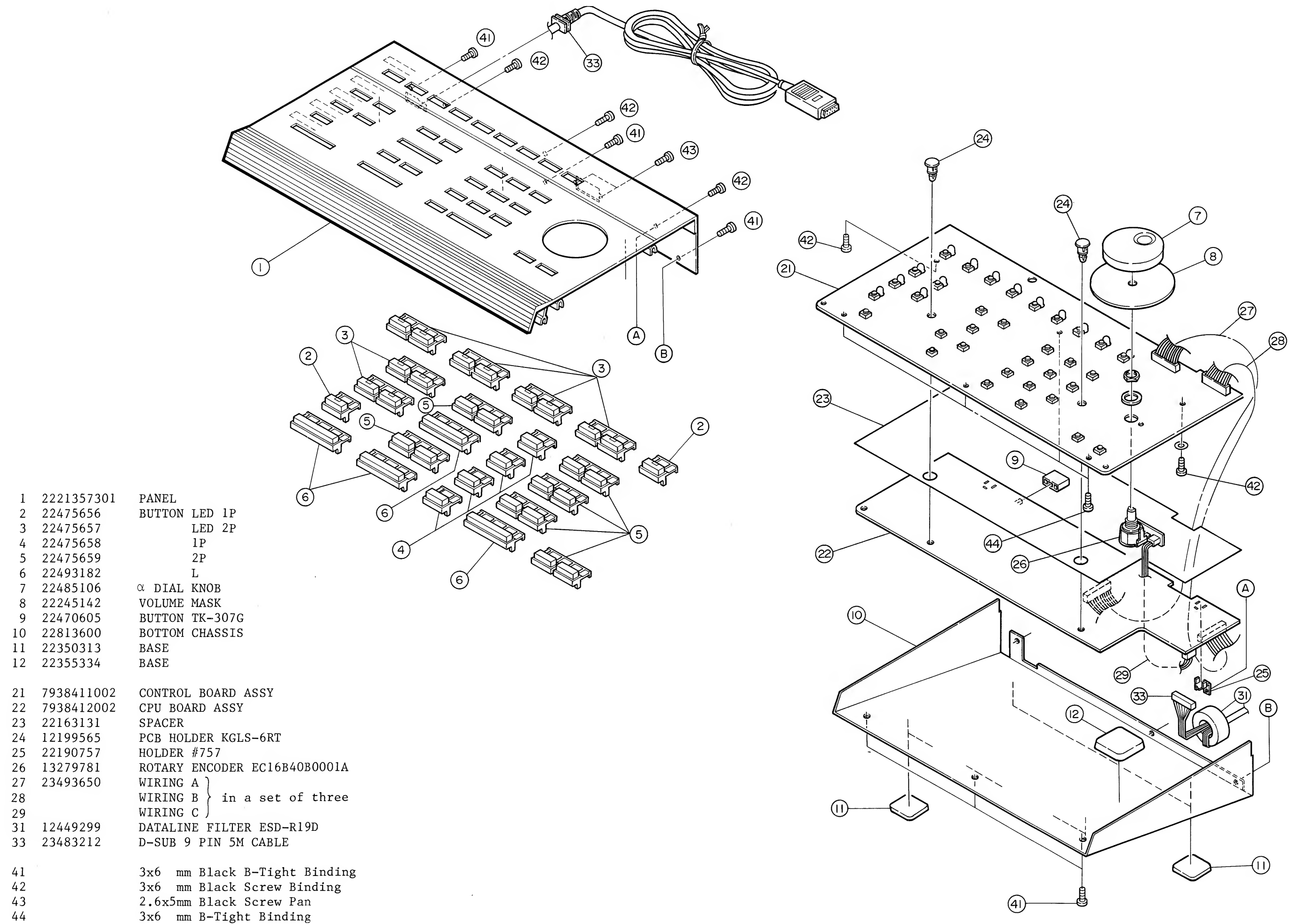
SWITCH

13169633 SKHHAD039A



Knob (22485106)
Rotary Encoder
EC16B40B0001A (13279781)

EXPLODED VIEW



PARTS LIST

CASE		
22213573	Panel	
22813600	Bottom Chassis	
22355313	Base	
BUTTON, KNOB		
22475656	Button LED 1P	REC,F-3
22475657	Button LED 2P	PLAY EDIT:DISK MIDI;FUNC UTILITY:F-1 F-2:MENU COMMAND;SUB MENU EXECUTE
22475658	Button 1P	7, 4, 1, 0
22475659	Button 2P	INS DEL:◀▶:8 9:5 6:2 3:DEC/NO INC/YES
22493182	Button L	START/STOP, ▲ , ▼ , ENTER
22470605	Button TK-307 G	RESET
22485106	Knob	α DIAL
PCB ASSY		
79384110	CONTROL Board	(pcb 22923512)
79384120	CPU Board w/rotary encoder board	(pcb 22923512)
IC		
15179253	MSM80C31RS	CPU
15229861	M60003A-0117SP	Gate Array
15169515B0	M74HC00P	quad 2-input NAND gate
15169514B0	M74HC04P	hex inverter
15169555B0	M74HC393P	dual 4-bit binary counter
15169544B0	M74HC573P	3 state octal D-type latch
15179855	LH5764-20	one time P-ROM
TRANSISTOR		
15129150	DTC 114EF	with built-in resistors
LED		
15029222	SLR-55VC3F	(red)
SWITCH		
13169633	SKHHAD039A	tact
13279781	EC16B40B0001A	rotary encoder
13129559	SPPJ 2	push
RESISTOR ARRAY		
13919140	RGLD 8-103J	10KΩ x 8
13919188	RGLD 9-103J	10KΩ x 9
CONNECTOR		
13429203	DELC-J9PAF-10L9	D-SUB 9 pin
13439330	IL-S-3P-S2T2-EF	
13439423	M84-09-70-114P	
JACK		
13449125	HLJ0520-01-110	REC.START/STOP
INDUCTOR		
22445240	BL02RNS-R62	ferrite beads
13529158	ZJSC-2R2-101	EMI filter

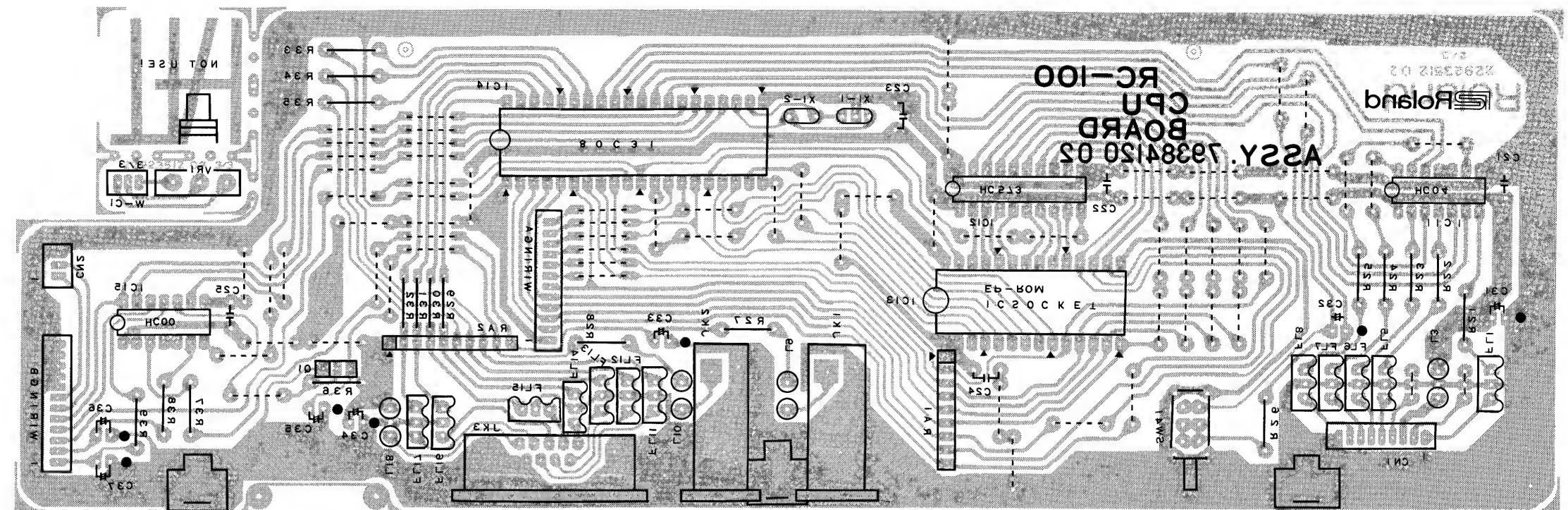
WIRING ASSY			
2349365001	Wiring A	120mm	12 pin
	Wiring B in a set of three	120mm	12 pin
	Wiring C	150mm	3 pin
MISCELLANEOUS			
12389800	Ceramic Resonator	KMFC1005T1	
23483212	D-SUB Cable 9 pin 5m		
12199565	PCB Holder	KGLS-6RT	
22190757	Holder #757		
22355334	Base		
12449299	Data Line Filter	ESD-R19D	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

A
B
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K
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O
P
Q
R
S
T
U
V

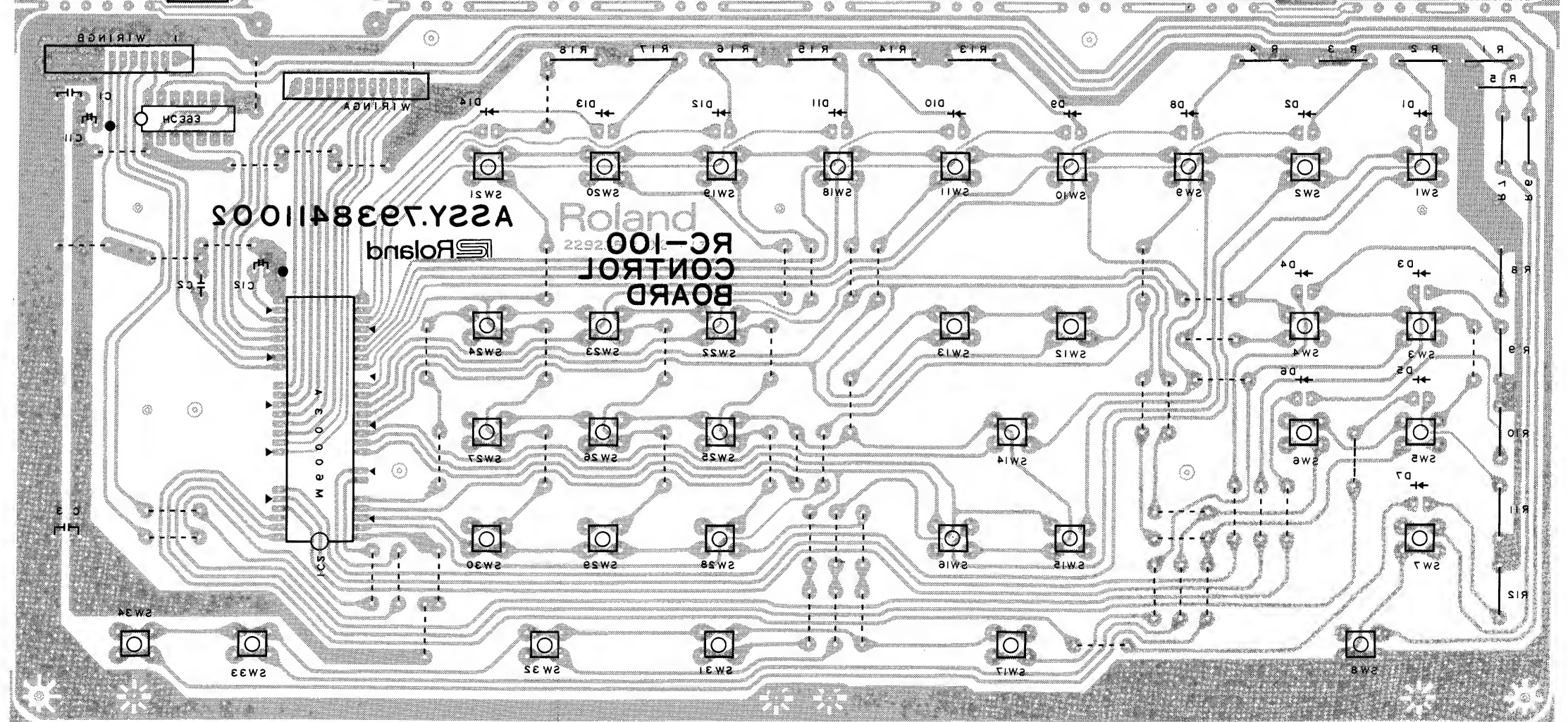
CPU BOARD
ASSY 79384120
 (pcb 22923512)

View from foil side



CONTROL BOARD
ASSY 79384110
 (pcb 22923512)

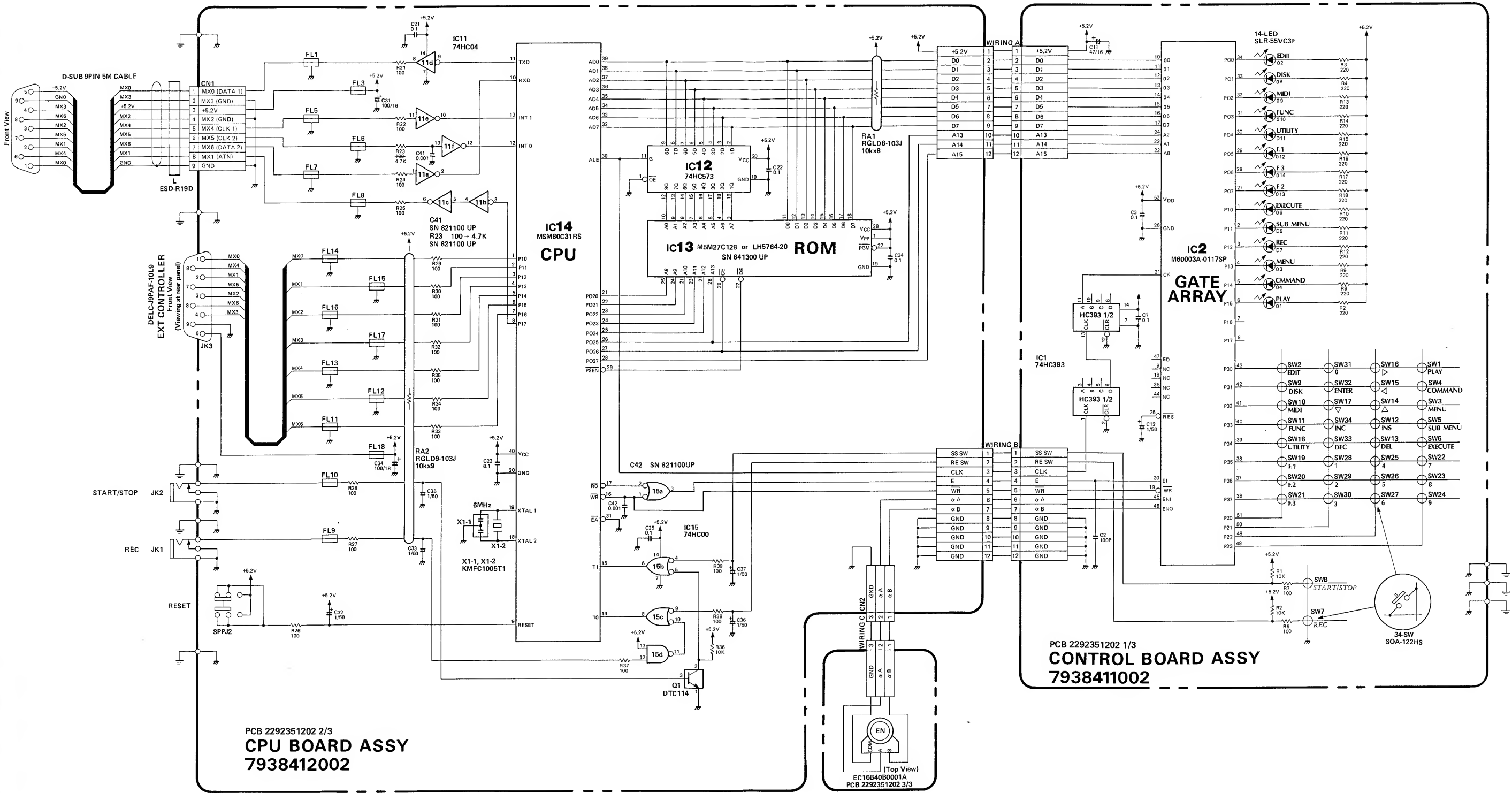
View from foil side



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

CIRCUIT DIAGRAM

A
B
C
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E
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K
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S
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CHANGE INFORMATION

PROM IC13 CPU Board
From EP-ROM M5M27C128-2 to compatible One Time P-ROM (OTP-ROM) LH5764-20.
Eff. SN841300
Replacement: OTP-ROM LH5764-20 (PN 15179855) only.

Data Line Filter
From ESD-R-25D to smaller size ESD-R-19D (compatible)
Eff. SN841300
Replacement: ESD-R-19D (PN 12449299) only.

C41, C42 and R23 CPU Board
Add two 0.001μF capacitors and increase R23 to 4.7kΩ to prevent accumulation of statics, which causes the CPU to go hangup.
Note that the CPU can escape hangup status when RESET switch is pressed.
Eff. SN821100

変更案内

EP-ROM CPU BOARD IC13 M5M27C128-2を
ONE TIME P-ROM LH5764-20に変更
実施製番 SN841300
サービスパーツはOTP-ROM LH5764 (PART No. 15179855)を支給します。

データラインフィルターを小型のものに変更
ESD-R-25D→ESD-R-19D(互換性有り)
実施製番 SN841300
サービスパーツはESD-R-19D (PART No. 12449299)
を支給します。

CPU BOARD C41 , C42 (0.001μF) 追加、R23 (100Ω) を 4.7 KΩに変更
理由 静電気対策
静電気によりCPUが誤動作し、パネルのSWの入力を一切受け付けなくなる、これを防止するため。
(但し、RESET SW を押すことにより、上記症状は取り除かれ正常にもどります)
実施製番 SN821100